CODE ANALYSIS

APPLICABLE CODES

	Year		Year
International Building Code	2003	National Electrical Code	2003
International Mechanical Code	2003	Uniform Code for Building Conservation	2003
International Plumbing Code	2003	ADA Accessibility Guildelines	2003
International Fire Code	2003		
International Energy Conservation Code	2003		

A. Occupancy and Group: S-2 B E

Change in Use: Yes _____ No X Mixed Occupancy: Yes X No _____
Special Use and Occupancy (e.g. High Rise, Covered Mall): N/A

B. Seismic Design Category: EXIST. Design Wind Speed: 70 mph

C. Type of Construction (circle one):

I A | I B | II A | II B | III A | III B | IV HT | V A | (V B)

D. Fire Resistance Rating Requirements for the Exterior Walls based on the fire separation distance (in hours):

North: EXIST. South: EXIST. East: EXIST. West: EXIST.

E. Mixed Occupancies: YES Nonseparated Uses: NO

F: Sprinklers: NONE

Required: _____ Provided: _____ Type of Sprinkler System: _____

G: Number of Stories: 2 Building Height: 25'

H: Actual Area per Floor (square feet): 1ST FL = 11,737 2ND FL = 3315 SF

I: Tabular Area: 9,000 / FLOOR

J: Area Modifications:

a) $A_a = A_t + \left[\frac{A_t I_f}{100}\right] + \left[\frac{A_t I_s}{100}\right]$ $\quad I_f = 100\left[\frac{F}{P} - 0.25\right]\frac{W}{30}$

$9{,}000 + \frac{9{,}000 \times 75}{100} + 0 = 15{,}750$ SF / FLR.

b) Sum of the Ratio Calculations for Mixed Occupancies:

$\frac{\text{Actual Area}}{\text{Allowable Area}} \leq 1$

c) Total Allowable Area for:

1) One Story: 15,750 SF
2) Two Story: A_a (2) 15,750 SF
3) Three Story: A_a (3)_____

d) Unlimited Area Building: Yes _____ No X Code Section: _____

K. Fire Resistance Rating Requirements for Building Elements (hours).

Element	Hours	Assembly Listing	Element	Hours	Assembly Listing
Exterior Bearing Walls	EXIST.		Floors – Ceiling Floors	EXIST	
Interior Bearing Walls	EXIST		Roofs – Ceiling Roofs	EXIST	
Exterior Non-Bearing Walls	EXIST		Exterior Doors and Windows	EXIST	
Structural Frame	EXIST		Shaft Enclosures	NONE	
Partitions – Permanent	EXIST		Fire Walls	NONE	
Fire Barriers	2	WP-4135	Fire Partitions	NONE	
			Smoke Partitions	NONE	

L. Design Occupant Load: 133

Exit Width Required: 44" Exit Width Provided: 48"

M. Minimum Number of Required Plumbing Facilities:

a) Water Closets – Required (m) 2 (f) 2 Provided (m) 3 (f) 2
b) Lavatories – Required (m) 2 (f) 2 Provided (m) 2 (f) 2
c) Bath Tubs or Showers: _____
d) Drinking Fountains: 1 Service Sinks: 1

FOOTNOTES:

1) In case of conflict with the U.S. Department of Justice Federal Registers IParts through V – ADA Guidelines and specific reference to the International Building Code Accessibility Chapters, the more restrictive requirement shall govern.

2) Additional Code Information shall be provided at the discretion of the Building Official for Complex Buildings. Including, but not limited to:

a) High Rise Requirements.
b) Atriums.
c) Performance Based Criteria.
d) Means or Egress Analysis.
e) Fire Assembly Locator Sheet.
f) Exterior and Interior Accessibility Route.
g) Fire Stopping, Including Tested Design Number.

INTERIOR ADDITIONS & REMODEL TO:
UTAH VALLEY STATE COLLEGE

AIRPORT HANGER ADDITIONS

PROVO AIRPORT FACILITY
PROVO, UTAH

DFCM PROJECT NO. 06008790

VINCENT DESIGN GROUP INC.
401 EAST 1700 SOUTH
SALT LAKE CITY, UTAH
(801) 484-2046
architects/planners

LEGEND & SYMBOLS

ACOUST.	ACOUSTIC	SPEC.	SPECIFICATION
ADJ.	ADJUSTABLE	STL.	STEEL
ALUM.	ALUMINUM	TJI.	TRUSS JOIST
CER.TILE	CERAMIC TILE	REQ.	REQUIRED
CONC.	CONCRETE	W.C.	WATER CLOSET
CONT.	CONTINUOUS	U.N.O.	UNLESS NOTED OTHERWISE
DET.	DETAIL		
ELEV.	ELEVATION		
EXIST/EX.	EXISTING		
EXP.	EXPANSION		
FLR.	FLOOR	P/L	PROPERTY LINE
F.D.	FLOOR DRAIN	FGE.	FINISH GRADE ELEVATION
GALV.	GALVANIZED	TBC.	TOP OF CURB ELEVATION
GA.	GUAGE	TCE.	TOP OF CONCRETE ELEVATION
GYP. BD.	GYPSUM BOARD	FFE.	FINISH FLOOR ELEVATION
INSUL.	INSULATION	—G—	GAS LINE
MAX.	MAXIMUM	—SS—	SANITARY SEWER LINE
MM	MINIMUM	—W—	WATER LINE
MTL.	METAL	—T—	TELEPHONE LINE
N. I. C.	NOT IN CONTRACT	—P—	POWER LINE
OPN'G	OPENING		
REINF.	REINFORCED		
SHT.	SHEET		
O.C.	ON CENTER		

WOOD FRAMED WALLS
CONCRETE
ACOUSTIC TILE
GYPSUM BOARD
BRICK VENEER
RIGID INSULATION
WOOD DIMENSIONAL LUMBER
WOOD

WINDOW NUMBERS
DOOR NUMBERS
DETAIL NUMBER / SHEET NUMBER — DETAIL
SECTION LETTER / SHEET NUMBER — SECTION OR ELEVATION

DRAWING INDEX :

APPROVALS:

Prime Agency _____ Date _____

DFCM _____ Date _____

APPROVAL DOES NOT RELIEVE A/E OF DESIGN LIABILITY

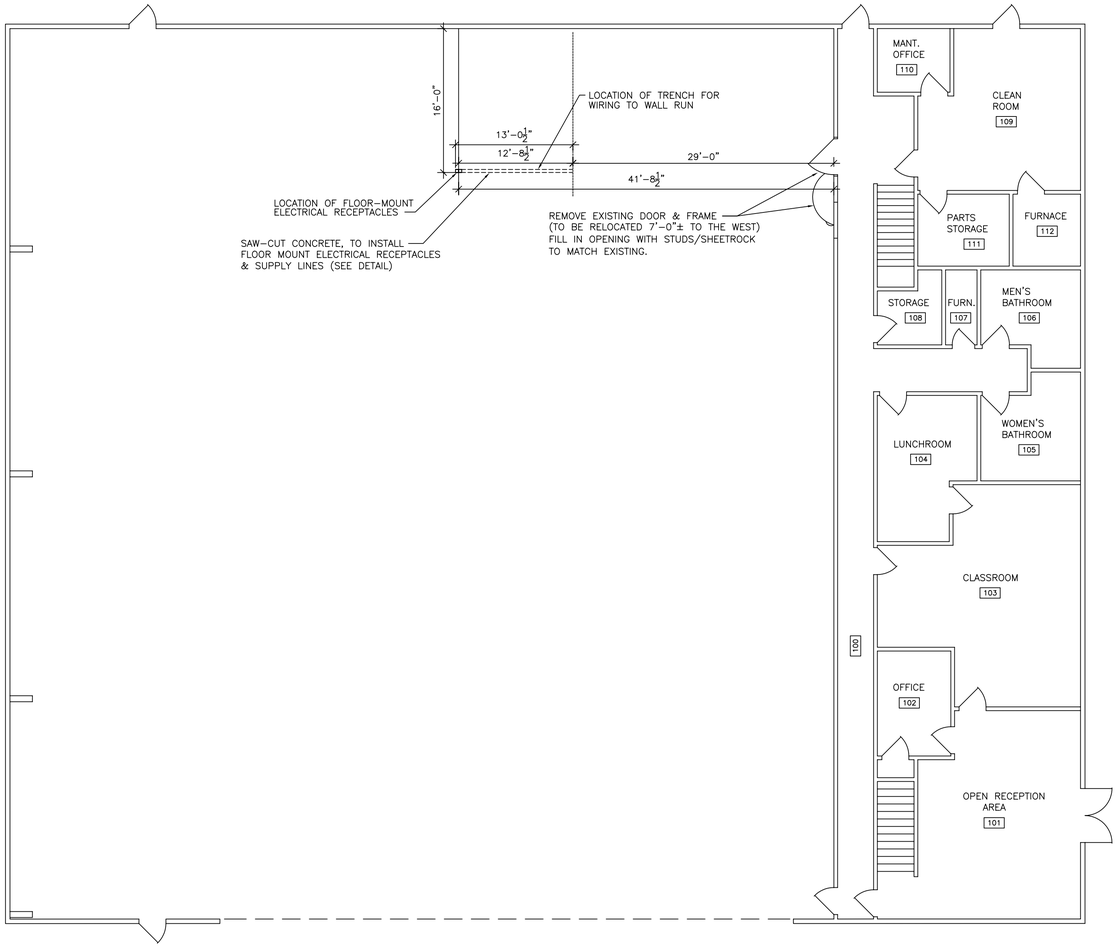
VINCENT DESIGN GROUP, INC.
ARCHITECTS AND PLANNERS
401 EAST 1700 SOUTH, SALT LAKE CITY, UTAH (801) 484-2046

ADDITION TO
UTAH VALLEY STATE COLLEGE
AIRPORT HANGER ADDITION
PROVO AIRPORT HANGER 'A'
PROVO, UTAH
DFCM PROJECT NO. 06008790
TITLE SHEET, INDEX & LEGEND

ARCH. PROJECT NO: 06-19
DATE: MAR 21, 2006
DRAWN BY: JV
CHECKED BY:
DESIGNED BY:

DATE	REVISION

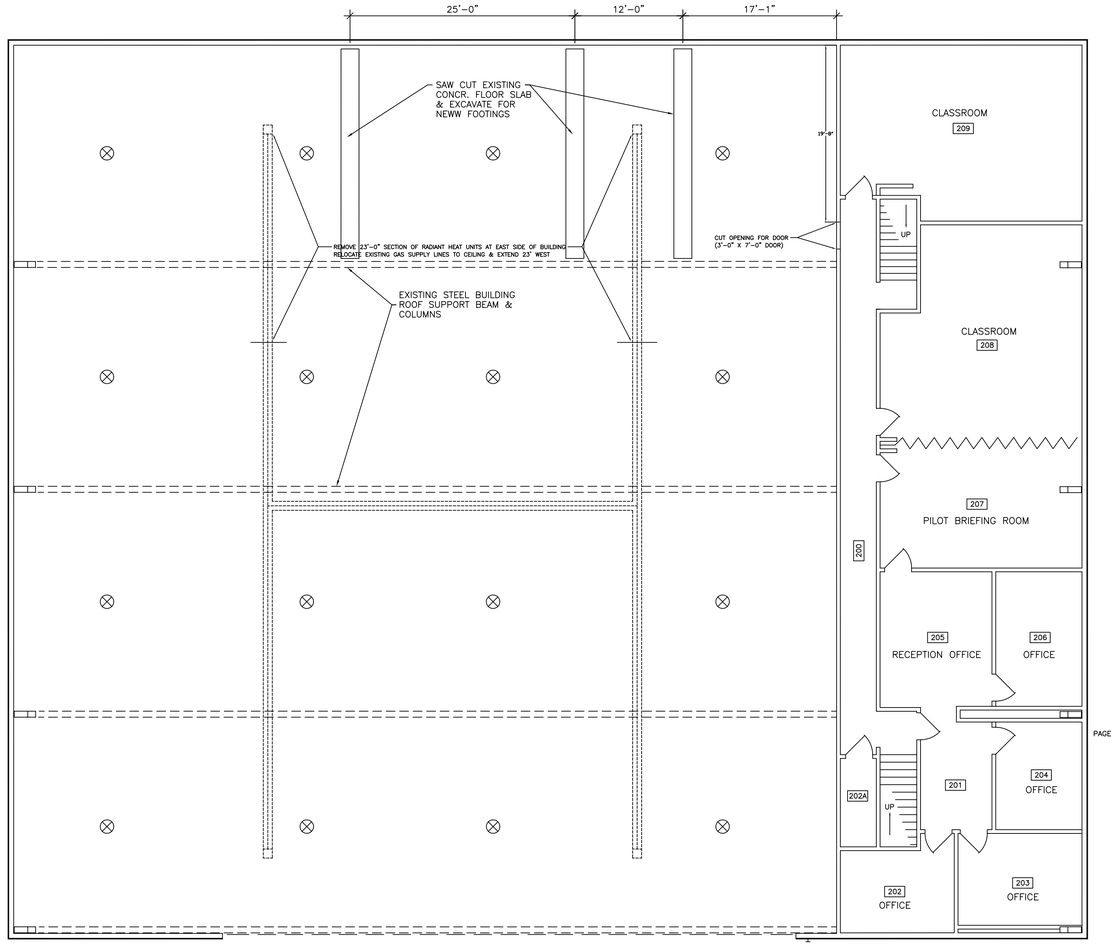
SHEET TITLE
AS-101
ARCHITECTURAL –



1ST FLOOR DEMOLITION

SCALE: 1/8"=1'-0"

NORTH



2ND FLOOR DEMOLITION

SCALE: 1/8"=1'-0"

NORTH

VINCENT DESIGN GROUP, INC.
ARCHITECTS AND PLANNERS
401 EAST 1700 SOUTH, SALT LAKE CITY, UTAH (801) 484-2046

ADDITION TO
UTAH VALLEY STATE COLLEGE AIRPORT HANGER ADDITION
PROVO AIRPORT HANGER 'A'
PROVO, UTAH
DFCM PROJECT NO. 06008790
DEMOLITION PLANS

ARCH. PROJECT NO: 06-19	
DATE: 21 MAR 2006	
DRAWN BY: JOHN	
CHECKED BY:	
DESIGNED BY:	

DATE	REVISION

SHEET TITLE

AE-101

ARCHITECTURAL

FINISH SCHEDULE

ROOM NO.	ROOM NAME	FLOOR: CARPET	FLOOR: EXISTING	FLOOR: OSB SHEATHING	BASE: 4" RUBBER	BASE: NONE	WALLS: PAINTED GYP BRD	WALLS: PAINT ON EXISTING	CEILING: ACOUSTIC TILE	CEILING: EXISTING	CEILING HEIGHT	REMARKS
101a	HALL	O			O		O		O		8'-0"	
113	SIMULATOR #1	O			O		O	O	O		8'-0"	PAINT BLACK WALLS & CLG.
114	SIMULATOR #2	O			O		O		O		8'-0"	PAINT BLACK WALLS & CLG.
115	SIMULATOR #3	O			O		O		O		14'-0"	PAINT BLACK WALLS & CLG.
116	FUTURE RM.		O		O		O			O	EXIST	
210	STORAGE			O		O	O			O	EXIST	PAINT NEW GYP. BRD.
211	MECHANICAL			O		O	O			O	EXIST	PAINT NEW GYP. BRD.

NOTE: PAINT ALL NEW GYP. BRD. WALLS ON BOTH SIDES & CEILINGS.

DOOR SCHEDULE

MARK	DOOR SIZE	ASSEMBLY: SINGLE	ASSEMBLY: PAIR	DETAIL: HEAD	DETAIL: JAMB	MATERIAL: DOOR	MATERIAL: FRAME	DOOR TYPE	HDWR. GROUP	REMARKS
1	3'-0" x7'-0" x 1 3/4"		O	2/102	2/102	HMTL	HMTL	A	H-1	WIRE GLASS LIGHTS IN DRS. (90 MIN.)
2	EXISTING DOOR & FRAME	O		2/102	2/102	HMTL	HMTL	C	H-2.	RELOCATE EXISTING
3	4'-0" x7'-0" x 1 3/4"	O		2/102	2/102	HMTL	HMTL	C	H-3	
4	4'-0" x7'-0" x 1 3/4"	O		3/102	3/102	HMTL	HMTL	C	H-3	
5	3'-0" x7'-0" x 1 3/4"	O		3/102	3/102	HMTL	HMTL	B	H-4	
6	3'-0" x7'-0" x 1 3/4"		O	2/102	2/102	HMTL	HMTL	A	H-1	WIRE GLASS LIGHTS IN DRS. (90 MIN.)
21	3'-0" x7'-0" x 1 3/4"		O	3/102	3/102	HMTL	HMTL	A	H-1	NO LIGHTS IN DOORS (90 MIN.)
22	3'-0" x7'-0" x 1 3/4"	O		3/102	3/102	HMTL	HMTL	B	H-4	
23	3'-0" x7'-0" x 1 3/4"	O		3/102	3/102	HMTL	HMTL	B	H-4	

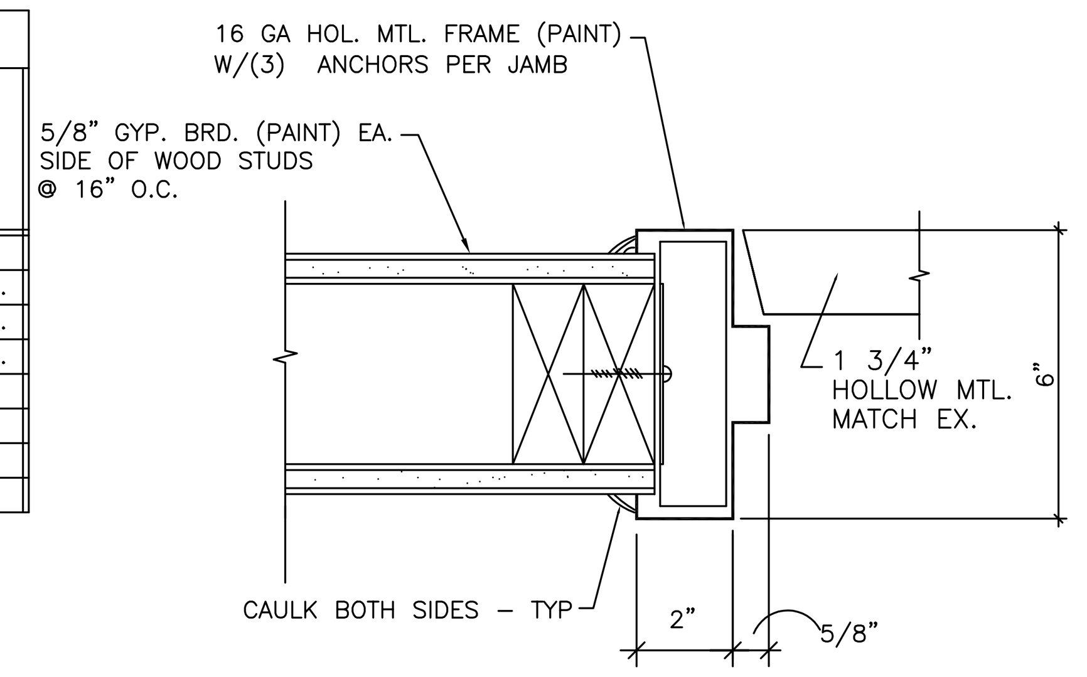
HARDWARE SCHEDULE:

H-1 3 PR. BUTTS – STANLEY – US26D, LEVER TYPE LOCK SET, OFFICE FUNCTION (HEAVY DUTY), FLUSH BOLT ON INACTIVE LEAF, SMOKE STOP WEATHERSTRIP.

H-2: EXISTING HARDWARE

H-3: 2 PR. BUTTS – STANLEY – US26D, LEVER TYPE LOCK SET, OFFICE FUNCTION (HEAVY DUTY), SMOKE STOP WEATHERSTRIP.

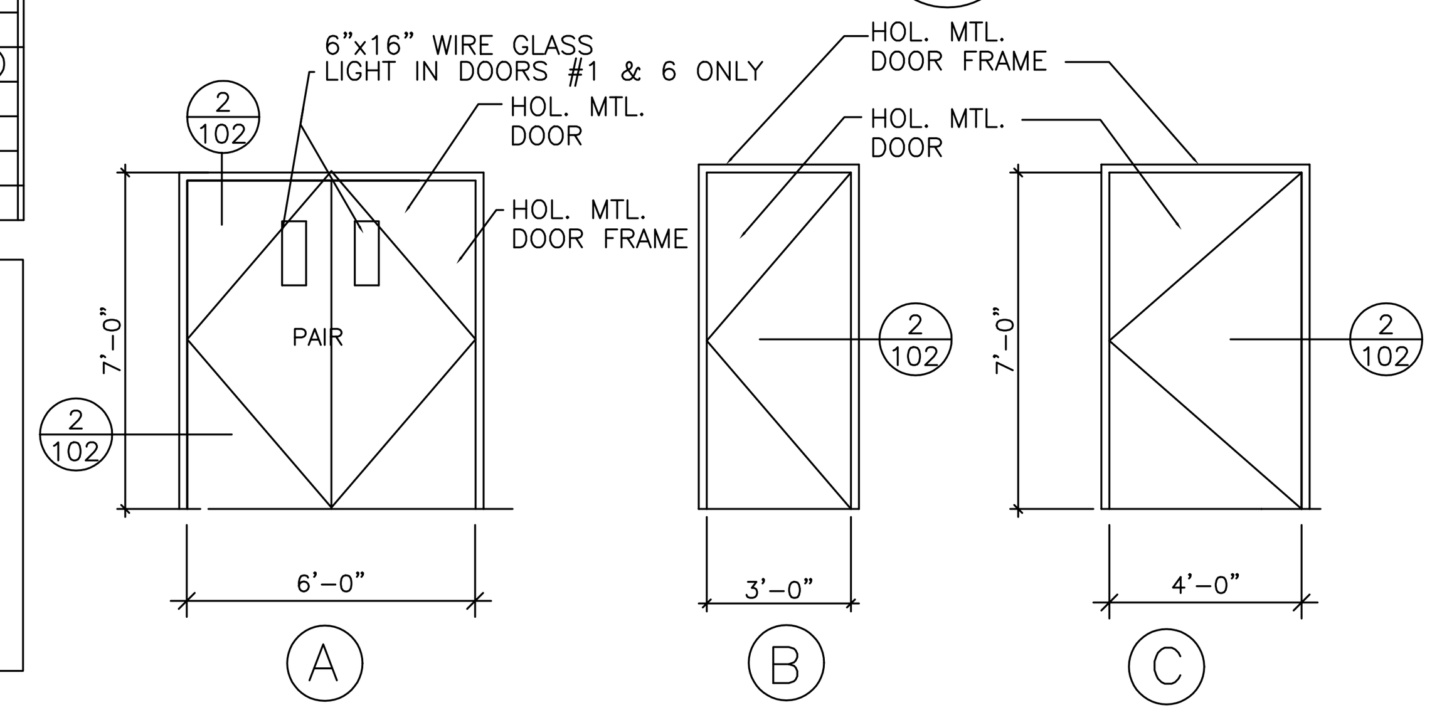
H-4: 1 1/2 PR. BUTTS – STANLEY – US26D, LEVER TYPE LOCK SET OFFICE FUNCTION (HEAVY DUTY), SMOKE STOP WEATHERSTRIP.



DETAIL

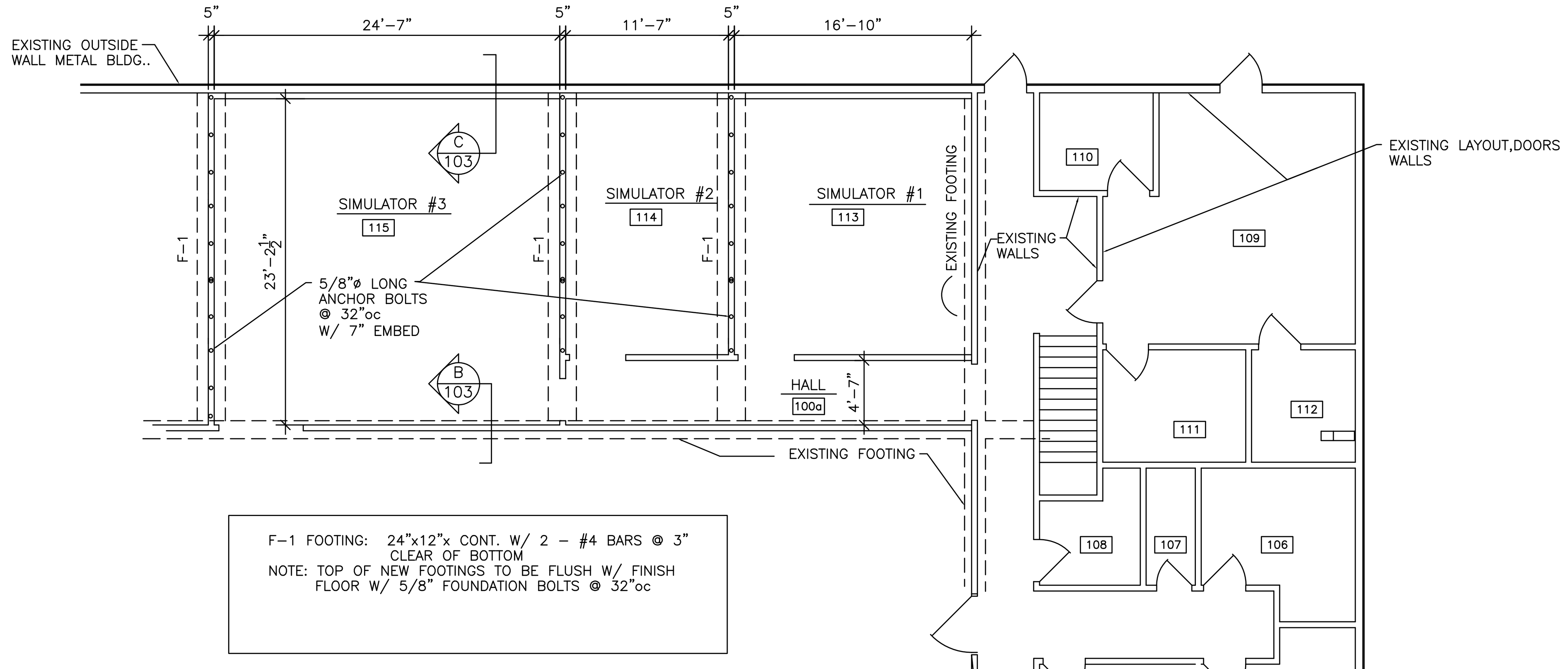
SCALE : 3" = 1'-0"

2/102



DOOR TYPES

SCALE: 1/4"=1'-0"

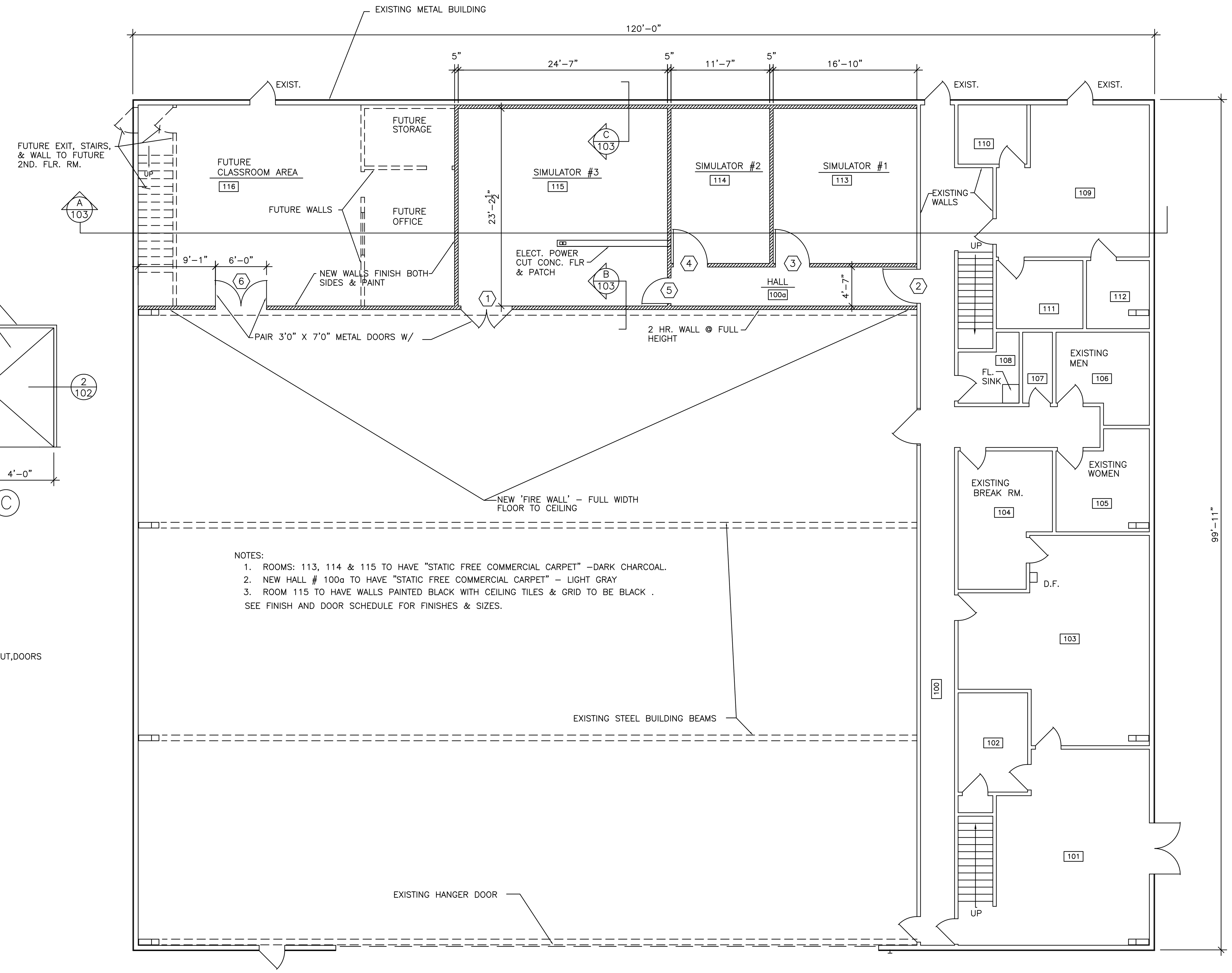


F-1 FOOTING: 24"x12"x CONT. W/ 2 – #4 BARS @ 3" CLEAR OF BOTTOM
NOTE: TOP OF NEW FOOTINGS TO BE FLUSH W/ FINISH FLOOR W/ 5/8" FOUNDATION BOLTS @ 32"oc

FOOTING PLAN

SCALE: 1/8"=1'-0"

NORTH



NOTES:
1. ROOMS: 113, 114 & 115 TO HAVE "STATIC FREE COMMERCIAL CARPET" –DARK CHARCOAL.
2. NEW HALL # 100a TO HAVE "STATIC FREE COMMERCIAL CARPET" – LIGHT GRAY
3. ROOM 115 TO HAVE WALLS PAINTED BLACK WITH CEILING TILES & GRID TO BE BLACK .

SEE FINISH AND DOOR SCHEDULE FOR FINISHES & SIZES.

1ST FLOOR PLAN

SCALE: 1/8"=1'-0"

NORTH

WOOD FLOOR TRUSSES

1. THE TRUSS MANUFACTURER SHALL BE RESPONSIBLE FOR THE DESIGN AND FABRICATION OF THE PRE-ENGINEERED TRUSSES AND SHALL DESIGN THE TRUSSES PER THE DESIGN CRITERIA BELOW.
2. THE TRUSSES SHALL BE DESIGNED TO CARRY ANY ADDITIONAL LOADS DUE TO MECHANICAL RUNS.
3. THE TRUSSES SHALL ALSO BE DESIGNED PER THE 2003 INTERNATIONAL BUILDING CODE AND LOCAL ORDINANCES. DESIGN MUST ALSO TAKE INTO ACCOUNT UNBALANCED LOADS.
4. ALL MEMBERS SHALL BE DESIGNED FOR COMBINED STRESSES, BASED ON THE WORST LOADING CONDITION.
5. THE TRUSS MANUFACTURER SHALL INDICATE PROPER BRACING OF COMPRESSION CHORD MEMBERS 6'-0" LONG (OR LONGER) AS WELL AS BRACING FOR TRUSS ERECTION.
6. ALL DIMENSIONS SHALL BE FIELD VERIFIED PRIOR TO FABRICATION.
7. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE INSTALLATION OF THE TRUSSES PER THE TRUSS MANUFACTURERS RECOMMENDATIONS AND SPECIFICATIONS. NO WEB OR CHORD MEMBERS SHALL BE MODIFIED IN THE FIELD.
8. THE PROJECT ENGINEER, OR ENGINEER OF RECORD, IS NOT RESPONSIBLE FOR THE PRE-ENGINEERED TRUSSES NOR FOR THE INSTALLATION, ETC., OF THE TRUSSES.
9. FABRICATION OF TRUSSES SHALL BE AS APPROVED BY ICBO EXCEPT THAT THIS SPECIFICATION SHALL GOVERN WHEN IT EXCEEDS ICBO REQUIREMENTS.
10. FABRICATE TRUSSES FROM APPROVED SHOP DRAWINGS.
11. FABRICATE TRUSSES IN JIGS WITH MEMBERS ACCURATELY CUT TO PROVIDE GOOD BEARING AT JOINTS. JOINTS SHALL BE ACCEPTABLE IF THE AVERAGE OPENING BETWEEN ENDS OF MEMBER S IMMEDIATELY AFTER FABRICATION IS LESS THAN 1/16", EXCEPT THAT TRUSS COMPRESSION CHORD JOINTS AT SPLICES AND RIDGES SHALL HAVE FULL CONTACT BETWEEN MEMBERS.
12. EACH CHORD SECTION SHALL BE INVOLVED IN TWO PANEL POINTS BEFORE BEING SPLICED.
13. PROVIDE 1/8" CAMBER FOR EACH 6 FEET OF TRUSS UNLESS OTHERWISE INDICATED.
14. TRUSS FABRICATORS USING METAL PLATES SHALL HAVE PLANT INSPECTED FOUR TIMES PER YEAR BY AN INDEPENDENT TESTING LABORATORY IN ACCORDANCE WITH TPI REGULATIONS AND COPIES OF INSPECTIONS MADE AVAILABLE TO OWNER UPON REQUEST.

METAL GUSSET PLATES –

15. SIZE PLATES FOR GREATER OF MEMBER FORCES SHOWN ON DRAWINGS OR MEMBER FORCES DERIVED FROM STRUCTURAL ANALYSIS, PLUS OR MINUS 6
16. NO PANEL POINT SHALL HAVE MORE THAN ONE PLATE PER TRUSS SIDE.
17. PLATES SHALL HAVE MINIMUM BITE OF 2-1/2" ON MEMBERS. MEASURE BITE ALONG CENTER LINE OF WEBS AND PERPENDICULAR TO CHORD AXIS. ORIENT PLATE AXIS PARALLEL WITH TRUSS CHORD AXIS EXCEPT WHERE CHORDS CHANGE PITCH AT JOINT.
18. PRESS PLATES INTO MEMBERS TO OBTAIN FULL PENETRATION WITHOUT CRUSHING OUTER SURFACE OF WOOD. PLATE EMBEDMENT IS ACCEPTABLE IF OPENING BETWEEN PLATE AND WOOD SURFACE IS LESS THAN 1/32".
19. LUMBER DEFECTS AND PLATE MISPLACEMENT, IN COMBINATION, SHALL NOT REDUCE PLATE AREA OR NUMBER OF AFFECTIVE TEETH, PRONGS, OR NAILS BY MORE THAN TEN PERCENT.
20. DO NOT APPLY METAL GUSSET PLATES AFTER SHOP FABRICATION.

GENERAL FRAMING NOTES

1. ALL WORK SHALL BE IN STRICT ACCORDANCE WITH INTERNATIONAL BUILDING CODES AND LOCAL ORDINANCES.
2. ALL DIMENSIONS AND CONDITIONS SHALL BE VERIFIED BY THE BUILDER PRIOR TO ANY WORK.
3. ALL STRUCTURAL JOISTS SHALL BE DOUGLAS FIR, LARCH #2 OR BETTER.
4. ALL GLU-LAM BEAMS SHALL BE 24F-V4 DF/DF OR BETTER.
5. ALL COLUMNS SHALL BE DOUGLAS FIR, LARCH #1 OR BETTER.
6. ALL STRUCTURAL CONNECTIONS SHALL BE SIMPSON OR EQUAL.
7. ALL JOISTS SHALL HAVE SOLID BLOCKING AT ALL BEARING POINTS AND FLOORS SHALL HAVE BRIDGING AT 8'-0" O.C.
8. ALL FLOOR SHEATHING SHALL BE GLUED AND SCREWED IN PLACE; NO SQUEAKING SHALL OCCUR.
9. FOR ADDITIONAL STANDARD NAILING REQUIREMENTS SEE SCHEDULE IN INTERNATIONAL BUILDING CODE.
10. ANY VARIATION SHALL BE PRE-APPROVED BY THE OWNER.
11. ALL HEADERS AND BEAMS SHALL BEAR ON COLUMNS, OR EQUAL, THAT EXTEND DOWN THROUGH THE STRUCTURE TO THE CONCRETE FOUNDATION. ALL COLUMNS SHALL BE BRACED AT ALL FLOOR AND CEILING LEVELS.
12. ALL WOOD IN CONTACT WITH MASONRY OR CONCRETE SHALL BE REDWOOD OR PRESSURE TREATED LUMBER.
13. WHEN POSSIBLE BEAMS SHALL BE RECESSED IN THE FLOOR/CEILING TO PROVIDE AS MUCH HEADROOM AS POSSIBLE (EXCEPT AS NOTED).
14. DOUBLE UP JOISTS THAT RUN PARALLEL, UNDER A PARTITION, OR WALL.
15. ALL STRUCTURAL MEMBERS SHALL HAVE A MINIMUM OF 3' OF BEARING.
16. PROVIDE HURRICANE CLIPS EACH END OF VERY OTHER RAFTER, TYPICAL.
17. FLOOR SHEATHING TO BE 3/4" T&G SHEATHING W/ COMMON NAILS OR EQUAL AT 6" O.C. EDGES AND AT 10" O.C. IN THE FIELD UNBLOCKED.
18. EXTERIOR BEARING WALLS TO BE 2 X 6 STUDS AT 16" O.C., DF #2 OR AS NOTED.
19. PROVIDE ATTIC ACCESS. SEE ARCHITECT FOR LOCATION AND ADDITIONAL REQUIREMENTS.

GENERAL CONCRETE NOTES

1. ALL WORK SHALL BE IN STRICT ACCORDANCE WITH THE LATEST EDITION OF THE 2003 INTERNATIONAL BUILDING CODE, MOST CURRENT ACI 318, AND LOCAL ORDINANCES.
2. CONTRACTOR SHALL VERIFY ALL CONDITIONS AND DIMENSIONS PRIOR TO POURING CONCRETE.
3. ALL REINFORCING STEEL SHALL BE DEFORMED BARS CONFORMING TO THE STANDARD SPECIFICATIONS ASTM A615 GRADE 60, AND MAY BE PROPERLY TIED INTO PLACE PRIOR TO POURING CONCRETE. (FIELD BENT DOWELS MAY BE GRADE 40.)
4. SEE SPECIFICATIONS FOR CONCRETE DESIGN REQUIREMENTS.
5. ALL EXTERIOR FOOTINGS SHALL BE 12" THICK MINIMUM AND PROPERLY FORMED. INTERIOR FOOTINGS SHALL ALSO BE 12" THICK, BUT MAY BE MONOLITHIC WITH SLAB.
6. RECESS FOUNDATION AND POUR SLAB THROUGH, TYPICAL, ALL EXTERIOR DOORS AND STORE FRONT TYPE WINDOWS.
7. ALL EXTERIOR FOOTINGS SHALL BEAR 30" MINIMUM BELOW FINISHED GRADE.
8. CONTRACTOR SHALL COORDINATE WITH MECHANICAL, ELECTRICAL, AND ARCHITECTURAL PRIOR TO POURING CONCRETE. PROVIDE SLEEVES, BLOCKOUTS, ETC., AS REQUIRED FOR PROJECT.
9. PROVIDE ISOLATION JOINTS AROUND COLUMNS, SPREAD FOOTINGS, AND CONTROL JOINTS AS REQUIRED. VERIFY LOCATIONS WITH ARCHITECT.
10. DEPRESS SLAB AS REQUIRED IN AREAS OF CERAMIC TILE, AND AS REQUIRED FOR SPECIAL ENTRY MATS, ETC.
11. ALL CONCRETE SHALL HAVE A MINIMUM COMPRESSIVE STRENGTH OF 3,000 PSI IN 28 DAYS. FLAT SLABS AND CONCRETE RETAINING WALLS SHALL HAVE A MINIMUM COMPRESSIVE STRENGTH OF 4,000 PSI.
12. CONTRACTOR SHALL BE RESPONSIBLE FOR PROPER PLACEMENT OF ALL ANCHOR BOLTS, HOLDDOWN ANCHORS OR STRAPS, ETC.; INSTALL PER MANUFACTURER.
13. WHERE FOUNDATION WALLS OR FOOTINGS SUPPORT MASONRY WALLS, PROVIDE MATCHING DOWELS OF SAME SIZE AND SPACING.
14. CONTRACTOR SHALL PROVIDE ALL SHORING AS REQUIRED.
15. BRACE WALLS AS REQUIRED UNTIL FLOOR SLABS ARE IN PLACE.
16. TO MINIMIZE CRACKING OF SLABS, USE #4 BARS AT18" O.C. EACH WAY CHAIRED IN CENTER OF SLAB.
17. ALL SPLICES IN CONTINUOUS CONCRETE REINFORCING BARS SHALL LAP 40 BAR DIAMETERS MINIMUM. ALL SPLICES SHALL BE MADE IN A COMPRESSION ZONE UNLESS NOTED. ALL CONTINUOUS REINFORCING SHALL TERMINATE WITH A 90 DEGREE BEND OR SEPARATE CORNER BARS.
18. ALL REINFORCING STEEL SHALL BE DETAILED AND PLACED IN ACCORDANCE WITH ACI DETAILING MANUAL AND ACI STANDARDS (LATEST EDITION).
19. FOOTINGS, FOUNDATION, AND SLABS SHALL BE CONSTRUCTED ON PROPERLY PREPARED MATERIAL. SUBBASE SHALL BE UNDISTURBED NATURAL SOILS OR ENGINEERED FILL PER THE SOILS ENGINEERS RECOMMENDATIONS AND PROJECT SPECIFICATIONS.

VINCENT DESIGN GROUP, INC.
ARCHITECTS AND PLANNERS
401 EAST 1700 SOUTH, SALT LAKE CITY, UTAH (801) 484-2046

ADDITION TO
UTAH VALLEY STATE COLLEGE
AIRPORT HANGER ADDITION

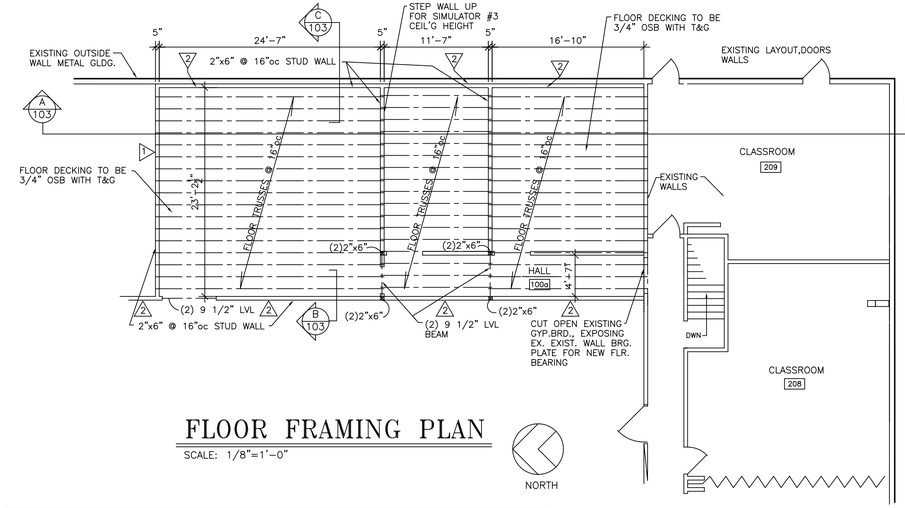
PROVO AIRPORT HANGER 'A'
PROVO, UTAH
DFCM PROJECT NO. 06008790

1ST FLOOR PLAN, FOOTING PLAN, SCHEDULES, NOTES & DETAILS

ARCH. PROJECT NO:06-19	
DATE:21 MAR 2006	
DRAWN BY:JOHN	
CHECKED BY:	
DESIGNED BY:	

DATE	REVISION

SHEET TITLE
AE-102
ARCHITECTURAL –



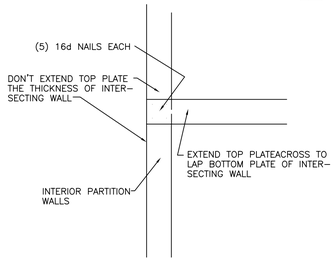
FLOOR FRAMING PLAN

SCALE: 1/8"=1'-0"

SHEARWALL SCHEDULE							
	MARK	SHEATH'G	SIDE	NAILING EDGE	NAILING FIELD	ANCHOR BOLTS	SIMPSON A35 SPACING	NOTES
1	SW-1	7/16"OSB	ONE	10d @ 6"oc	10d @ 12"oc	5/8" DIA. @32" oc	1 @ 48"oc	5/8" GYP. BRD. ROOM SIDE
2	SW-2	5/8" G.B.	TWO	6d* @ 4"oc	6d @ 4"oc	5/8" DIA. @32" oc	1 @ 24"oc	5/8" GYP. BRD. BOTH SIDES

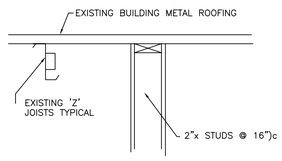
NOTES:

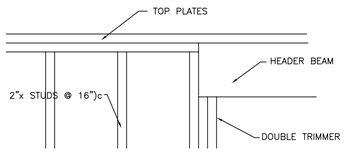
1. WHEN THE SHEAR WALL LENGTHIS LESS THAN THE ANCHOR BOLTS SPACING MENTIONED IN THE TABLE, USE ONE ANCHOR BOLT @ EACH END OF THE WALL.
2. USE 2x TREATED SILL PLATES. USE 2x2x3/16" WASHERS WITH ALL THE ANCHOR BOLTS.
3. 6d COOLER OR WALL BOARD NAILS
4. BLOCK ALL HORIZATAL SHEATHING EDGES W/ 2" NOMINAL OR WIDER MEMBERS.
5. ALL SHEATHING SHALL EXTEND CONTINOUS FROM SILL PLATE TO FLOOR SHEATHING.
6. NAILS SHALL BE PLACED NOT LESS THAN 3/8" FROM EDGES & ENDS OF SHEATHING AND SHALL BE DRIVEN FLUSH BUT NOT FRACTURE THE SURFACE OF BRD.



DETAIL E 103

SCALE: 3/4" = 1'-0"



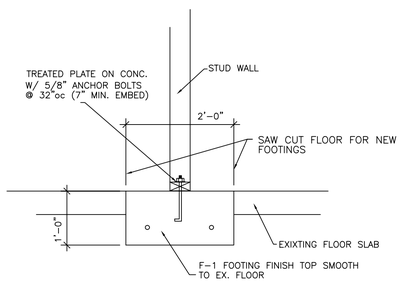


DETAIL E 103

SCALE: 3/4" = 1'-0"

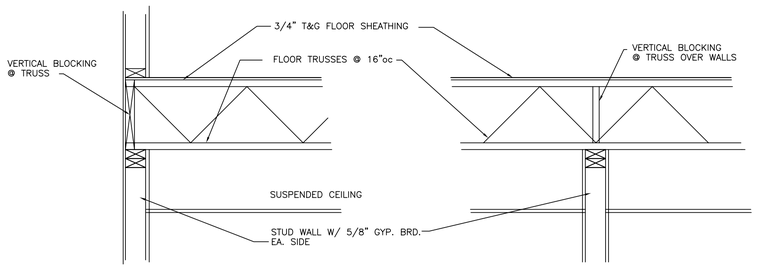
DETAIL D 103

SCALE: 3/4" = 1'-0"



DETAIL A 103

SCALE: 3/4" = 1'-0"

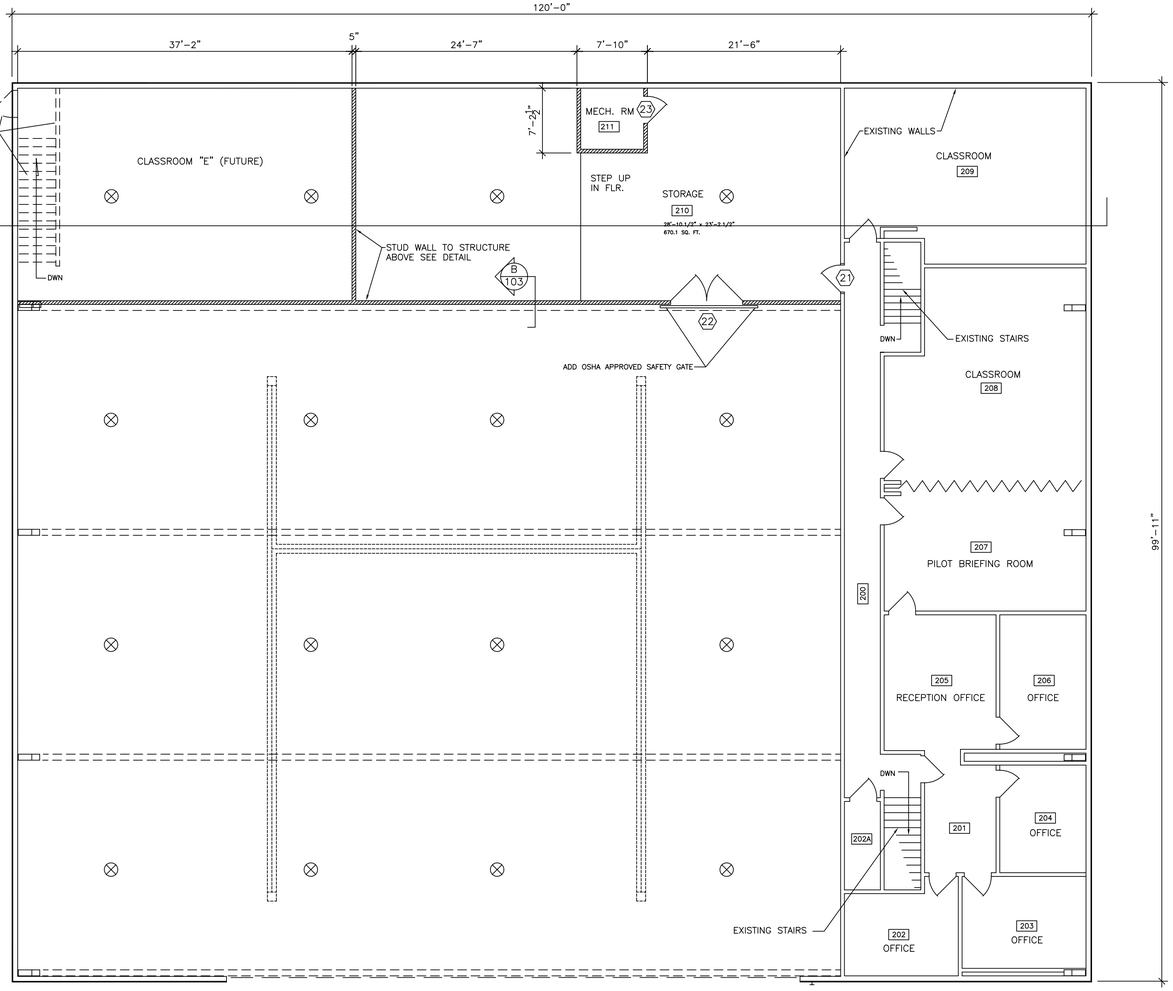


DETAIL B 103

SCALE: 3/4" = 1'-0"

DETAIL C 103

SCALE: 3/4" = 1'-0"



2ND FLOOR PLAN

SCALE: 1/8"=1'-0"

NORTH

INTERIOR DESIGN LOADING

HALL LIVE LOAD	= 100 PSF
HALL DEAD LOAD	= 15 PSF
FLOOR LIVE LOAD	= 50 PSF
FLOOR DEAD LOAD	= 15 PSF

DESIGN CODE

2003 INTERNATIONAL BUILDING CODE
NOTE: EXTERIOR DESIGN EXISTING BY OTHERS

DESIGN LOADS FOR WOOD FLOOR TRUSSES

TOP CHORD HALL LIVE LOAD	= 100 PSF
TOP CHORD LIVE LOAD	= 50 PSF
TOP CHORD DEAD LOAD	= 10 PSF
BOT CHORD LIVE LOAD	= 0 PSF
BOT CHORD DEAD LOAD	= 5 PSF

TABLE OF EQUIVALENT FASTNERS
STAPLES, NAILS & T-NAILS
(VALIE FOR LATERAL LOAD ONLY)

COMMON NAIL SPACING	GAUGE	EQUIV. SPACING OF APPROVED FASTNER STAPLES 16	STAPLES 15	NAILS 14	NAILS 13	T-NAILS 131
	PENT	1"	1"	1"	1 1/4"	1 1/2"
6d @	4"	3 1/2"	4"	5"	4"	5"
	6"	5"	6"	7"	6"	7 1/2"
	8"	6 1/2"	8"	9 1/2"	8"	10"
	10"	8 1/2"	10"	12"	10"	12"
	12"	10"	12"	14 1/2"	12"	14 1/2"
8d @	4"	2 1/2"	3 1/2"	4"	3 1/2"	4"
	6"	4"	5"	6"	5"	6"
	8"	5 1/2"	6 1/2"	8"	6 1/2"	8"
	10"	6 1/2"	8"	10"	8"	10"
	12"	8"	10"	12"	9 1/2"	12"
10d @	4"	2"	2 1/2"	3"	2 1/2"	3 1/2"
	6"	3 1/2"	4"	5"	4"	5"
	8"	4 1/2"	5 1/2"	6 1/2"	5 1/2"	7"
	10"	5 1/2"	7"	8"	6 1/2"	8 1/2"
	12"	6 1/2"	8"	9 1/2"	8"	10"

NOTE:
PENITRATION IS THE DEPTH OF EMBEDMENT OF THE STAPLE OR NAIL INTO THE MAIN MEMBER REQUIRED TO ATTAIN ITS FULL CAPACITY (SHEAR VALUE) FOR LATERAL LOADING.

VINCENT DESIGN GROUP, INC.
ARCHITECTS AND PLANNERS
401 EAST 1700 SOUTH, SALT LAKE CITY, UTAH (801) 484-2046

ADDITION TO
UTAH VALLEY STATE COLLEGE
AIRPORT HANGER ADDITION
PROVO AIRPORT HANGER 'A'
PROVO, UTAH
DFCM PROJECT NO. 06008790
2ND FLOOR PLAN, FLOOR FRAMING PLAN & DETAILS

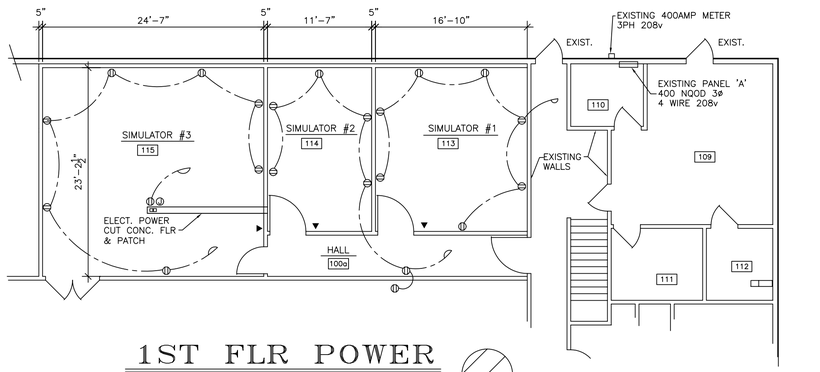
ARCH. PROJECT NO: 06-19
DATE: 21 MAR 2006
DRAWN BY: JOHN
CHECKED BY:
DESIGNED BY:

DATE	REVISION

SHEET TITLE

AE-103

ARCHITECTURAL –

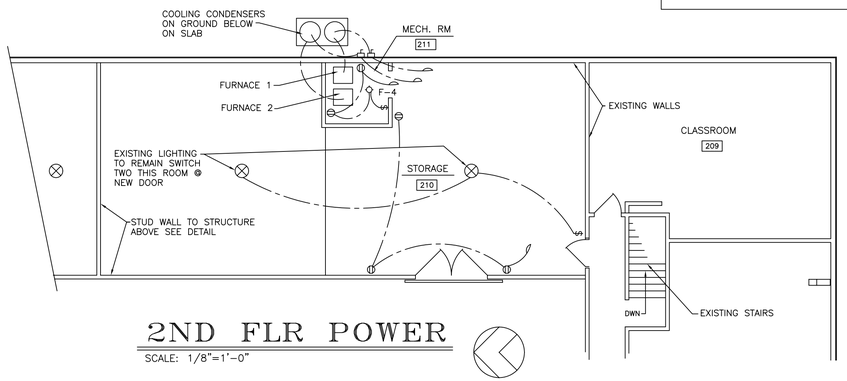


1ST FLR POWER

SCALE: 1/8"=1'-0"

NORTH

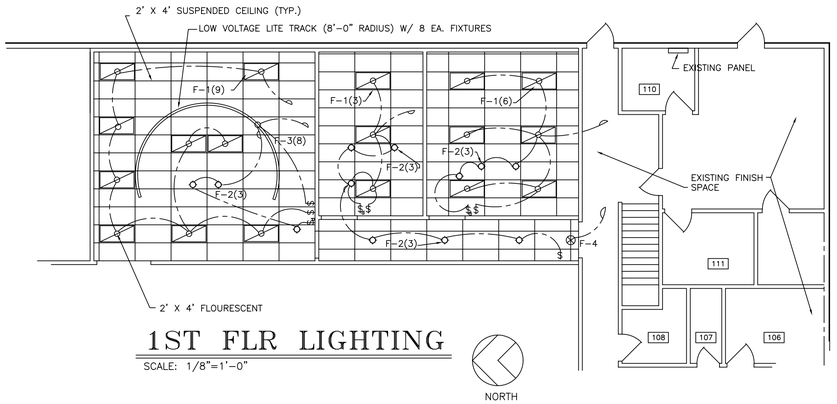
NOTE: MINIMUM CONDUIT SIZE SHALL BE 3/4". ALL WIRES SHALL BE COPPER AND SHALL BE INSTALLED IN CONDUITS. COMPLY WITH NATIONAL ELECTRICAL CODE & LOCAL ORDINANCES.



2ND FLR POWER

SCALE: 1/8"=1'-0"

NORTH



1ST FLR LIGHTING

SCALE: 1/8"=1'-0"

NORTH

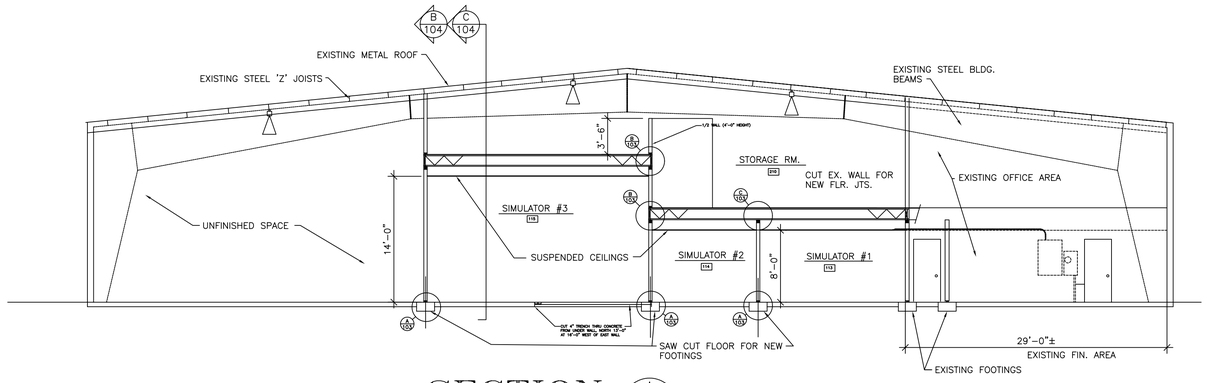
FIXTURE SCHEDULE

SYMBOL	MANUFACTURER	CATALOG NUMBER	DESCRIPTION	LAMP
F-1	DAY-BRITE HUBBELL LIGHTOLIER	2GG232-FS12-120-1/2-EB RS2GAN2D-B1 SPS2GFSVI-240-120SD	2' x 4', 2 LAMP, LAY-IN FLOURESCENT FIXTURE WITH 0.125" THICK ACRYLIC PRISMATIC LENS, THD, 120 VOLT ELECTRONIC BALLAST.	2FD32T8/35K
F-2	DAY-BRITE HUBBELL LIGHTOLIER	2GG232-FS12-120-1/2-EB RS2GAN2D-B1 SPS2GFSVI-240-120SD	2' x 4', 2 LAMP, LAY-IN FLOURESCENT FIXTURE WITH 0.125" THICK ACRYLIC PRISMATIC LENS, THD, 120 VOLT ELECTRONIC BALLAST.	2FD32T8/35K
F-3	HALO	L6SZ-(8)L3700-SCBA	SURFACE LIGHT TRACK 8FT RADIUS WITH (8) HEADS W/ TRANSFORMERS PROVIDE FEED KIT/CONNECTOR, ETC. SEE LIGHTING PLAN FOR SIZE ETC. (RADIUS)	8, 60W MR16 12V
F-4	CHLORIDE EXITRONIX HUBBELL	LSPNBDIG G402-NC-BL-SC CWPGA-L9/CMC-B	CEILING MOUNTED LIGHT EMITTING DIODE (LED) EXIT LIGHT WITH BLACK CAST ALUMINUM HOUSING, GREEN LETTERS ON BRUSHED ALUMINUM FACE, CHEVRON ARROWS AND NICKEL CADMIUM BATTERY. 120 VOLT.	FURNISHED W/FIXTURE

ELECTRICAL SYMBOL LIST

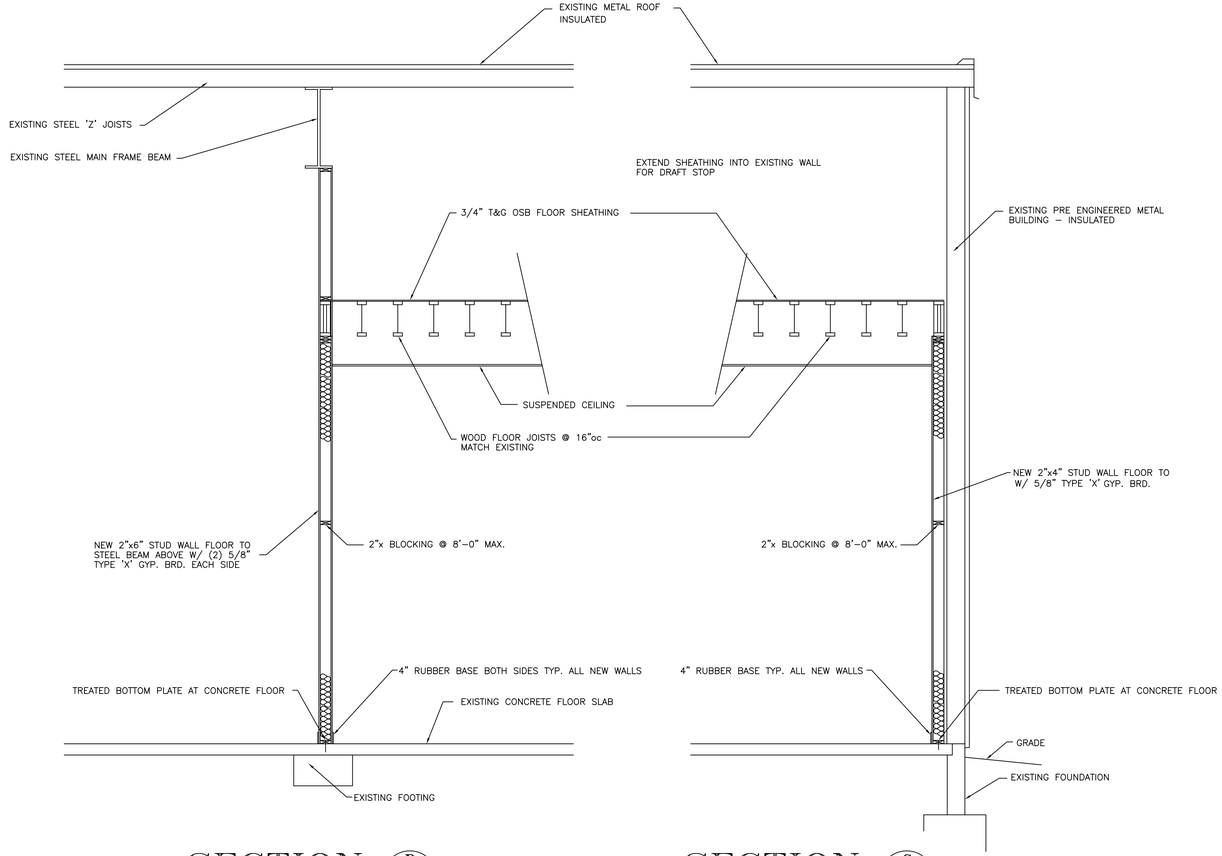
SYMBOL	DESCRIPTION
	LIGHTING SYMBOLS
	LAY-IN FLUORESCENT FIXTURE
	DUPLEX RECEPTACLE - 20 AMP
S	SINGLE POLE TOGGLE SWITCH - 20 AMP
T	TELEPHONE OUTLET-RUN CAT 5E 4 PR CABLE IN 3/4"C TO TEL EQ. (PHONE & DATA)
F-1	LIGHTING FIXTURE CALLOUT. QUANTITY - CONTRACTOR TO VERIFY COUNT.
	FUSED DISCONNECT SWITCH - SIZE AS REQUIRED
	MOTOR CONNECTION
	ELECTRICAL PANEL LOCATION

NOT ALL SYMBOLS USED ON PROJECT



SECTION A / A-4

SCALE: 1/8"=1'-0"



SECTION B / A-4

SCALE: 1/8"=1'-0"

SECTION C / A-4

SCALE: 1/8"=1'-0"

VINCENT DESIGN GROUP, INC.
ARCHITECTS AND PLANNERS
401 EAST 1700 SOUTH, SALT LAKE CITY, UTAH (801) 484-2046

ADDITION TO
UTAH VALLEY STATE COLLEGE AIRPORT HANGER ADDITION

PROVO AIRPORT HANGER 'A'
PROVO, UTAH
DFCM PROJECT NO. 06008790

ELECTRICAL, SECTIONS & DETAILS

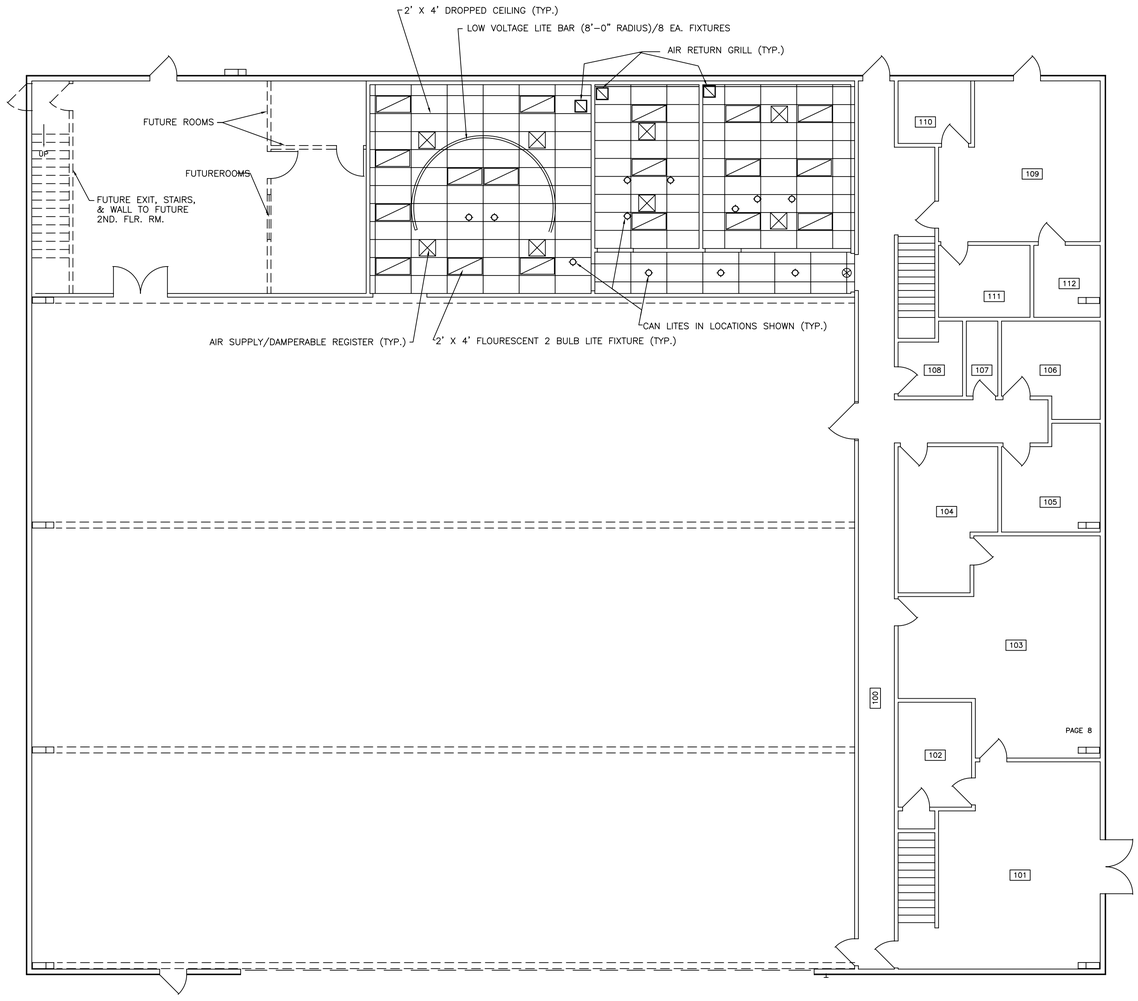
ARCH. PROJECT NO:	06-19
DATE:	21 MAR 2006
DRAWN BY:	JOHN
CHECKED BY:	
DESIGNED BY:	

DATE	REVISION

SHEET TITLE

AE-104

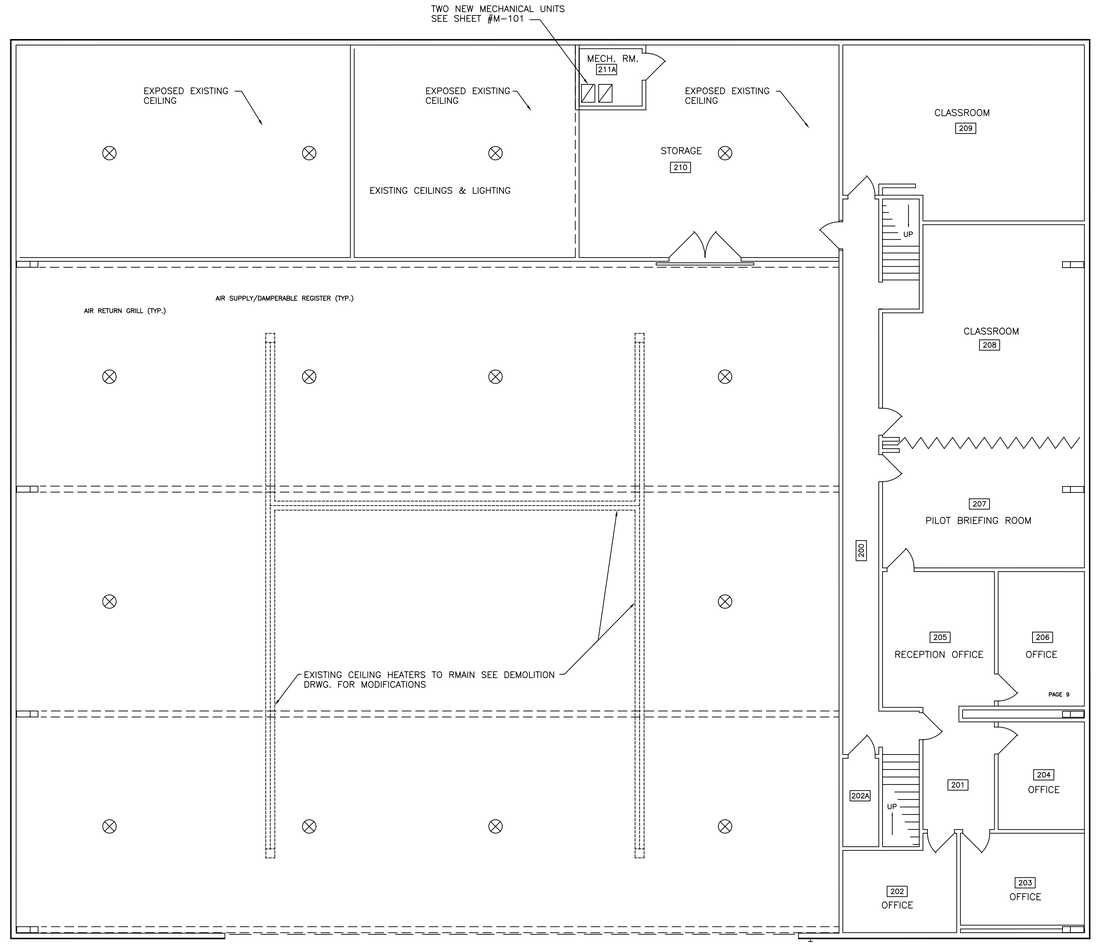
ARCHITECTURAL –



1ST FLOOR REFLECTED CEILING PLAN

SCALE: 1/8"=1'-0"

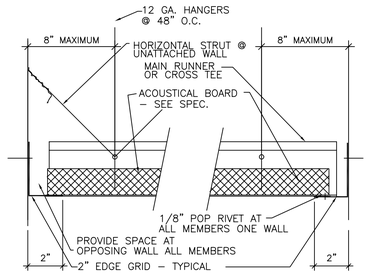
NORTH



2ND FLOOR REFLECTED CEILING PLAN

SCALE: 1/8"=1'-0"

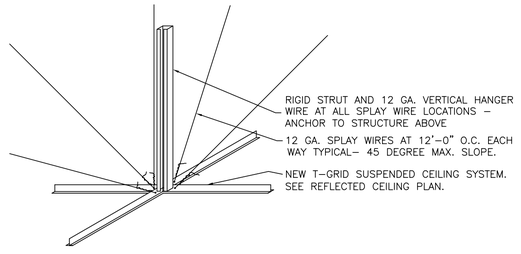
NORTH



DETAIL 1

SCALE: 3/4" = 1'-0"

A-5



DETAIL 2

SCALE: 3/4" = 1'-0"

A-5

VINCENT DESIGN GROUP, INC.
ARCHITECTS AND PLANNERS
401 EAST 1700 SOUTH, SALT LAKE CITY, UTAH (801) 484-2046

ADDITION TO
UTAH VALLEY STATE COLLEGE
AIRPORT HANGER ADDITION

PROVO AIRPORT HANGER 'A'
PROVO, UTAH
DFCM PROJECT NO. 06008790

REFLECTED CEILING PLANS & DETAILS

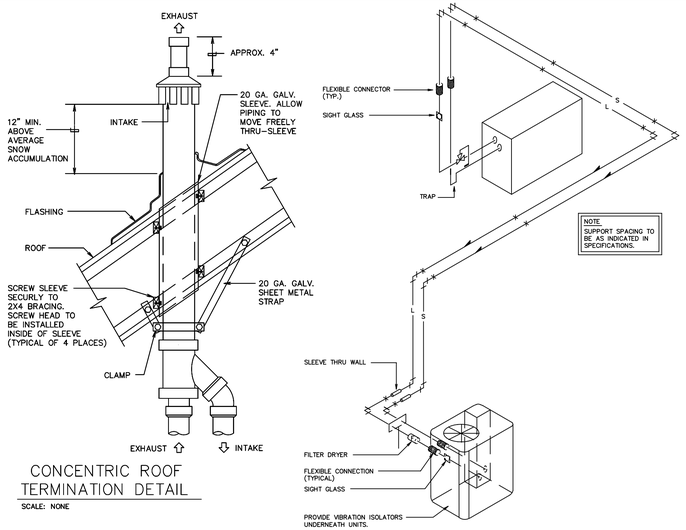
ARCH. PROJECT NO: 06-19	
DATE: 21 MAR 2006	
DRAWN BY: JOHN	
CHECKED BY:	
DESIGNED BY:	

DATE	REVISION

SHEET TITLE

AE-105

ARCHITECTURAL -

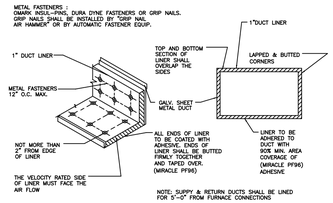


CONCENTRIC ROOF TERMINATION DETAIL

SCALE: NONE

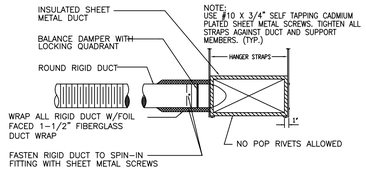
TYPICAL REFRIGERANT SCHEME

SCALE: NONE



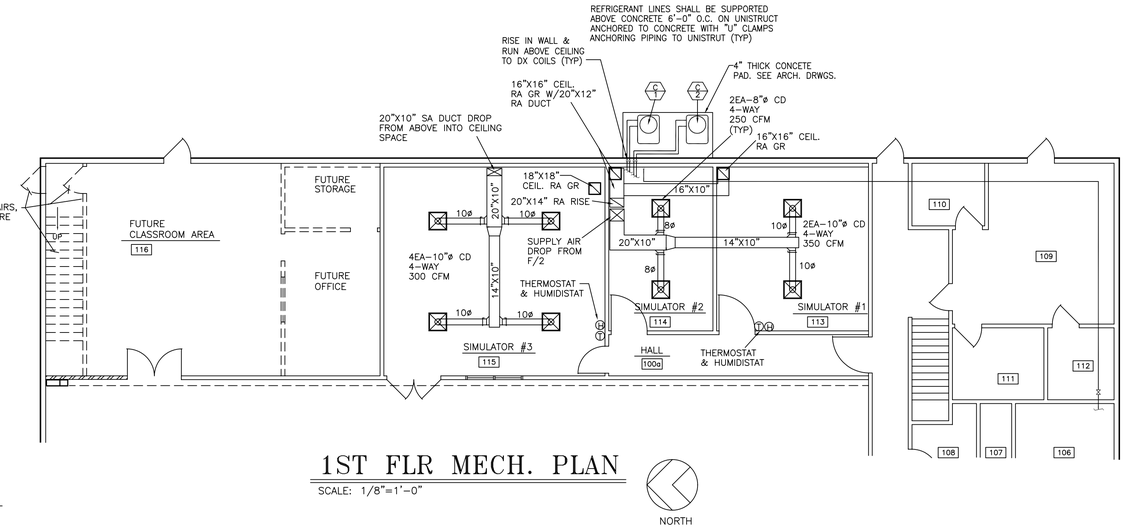
DUCT LINER DETAIL

NO SCALE



FLEX DUCT WITH SPIN IN FITTING

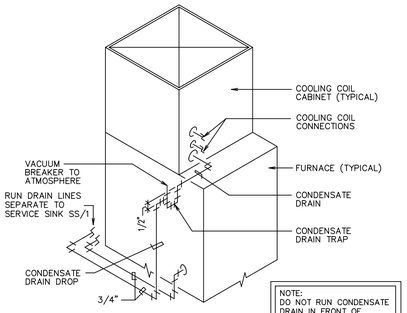
NO SCALE



1ST FLR MECH. PLAN

SCALE: 1/8"=1'-0"

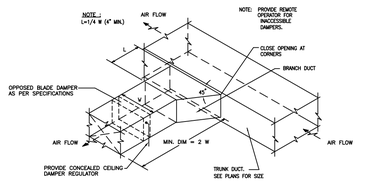
NORTH



CONDENSATE DRAIN TRAP DETAIL

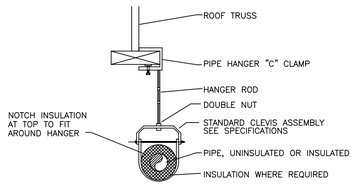
SCALE: NONE

NOTE:
DO NOT RUN CONDENSATE DRAIN IN FRONT OF FURNACE. THIS WILL ALLOW ACCESS TO FURNACE COMPONEMTS AND FILTERS.



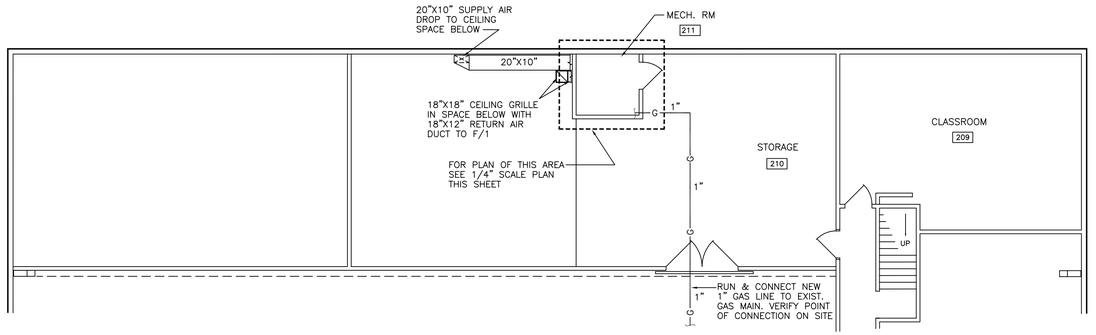
BRANCH DUCT TAKE-OFF DETAIL

NO SCALE



PIPE HANGER DETAIL

NO SCALE



2ND FLR MECH. PLAN

SCALE: 1/8"=1'-0"

NORTH

HUMIDIFIER SCHEDULE

SYM	MANUFACTURER	AREA SERVED	GAL. PER DAY	DRAIN	COVERAGE SQ. FT.	ELECTRICAL VOLT	ELECTRICAL AMPS	WEIGHT (LBS)	REMARKS
H-1	AUTOFLO 6GC71	SIMULATOR	20.0	CONT.	3100	120	10	12.0	1 2 3 4 5
H-2	AUTOFLO 6GC71	SIMULATOR	20.0	CONT.	3100	120	10	12.0	1 2 3 4 5

1. PROVIDE MATCHING HUMIDISTAT
2. INTERLOCK WITH FURNACE FAN TO OPERATE ONLY WHEN FAN IS OPERATING
3. PROVIDE AUTOMATIC WATER LEVEL CONTROL
4. PROVIDE CONTINUOUS DRAIN
5. MOUNT HUMIDIFIER IN RETURN AIR DUCT OF FURNACE

EQUIPMENT CONNECTION SIZE SCHEDULE

FURN. SYM	COND. SYM	AREA SERVED	REF. LINE SIZE LIQUID	REF. LINE SIZE SUCTION	INTAKE/VENT SIZE INTAKE	INTAKE/VENT SIZE VENT/FLUE	COND. DRAIN	GAS SIZE	REMARKS
F-1	C-1	SIMULATOR	3/8"	7/8"	2"ø	2"ø	3/4"	3/4"	1 2 3 4 5
F-2	C-2	SIMULATOR	3/8"	7/8"	2"ø	2"ø	3/4"	3/4"	1 2 3 4 5

NOTES:
1. REFRIGERANT PIPING SHALL BE DEGREASED & DEOXIDIZED TYPE "L" COPPER WITH WROUGHT COPPER FITTINGS. SOLDER SHALL BE "SILFOS" SILVER SOLDER
2. ALL REFRIGERANT SUCTION LINES SHALL BE INSULATED WITH 1/2" ARMSTRONG ARMAFLEX WITH TWO COATS OF ARMAFLEX 22 FINISH
3. DRAIN PIPING SHALL BE TYPE "L" COPPER WITH WROUGHT COPPER FITTINGS. SOLDER SHALL BE 95/5
4. VENT AND INTAKE FOR ALL FURNACES SHALL BE PVC SCHEDULE 40 WITH SOLVENT WELDED JOINTS. USE FACTORY CAP OR TURNED DOWN ELLS AT OUTLETS AND INTAKES. INSTALLATION SHALL BE IN ACCORDANCE WITH MANUFACTURERS INSTRUCTIONS
5. GAS PIPING IS FOR 4 OZ. GAS WITH GAS COCK & GAS PRESSURE REGULATOR AT EACH GAS BURNING APPLIANCE. GAS PRESSURE TO BE REDUCED TO APPLIANCE BURNING PRESSURE

GRILLE AND REGISTER SCHEDULE

TYPE	MANUFACTURER MODEL	DESCRIPTION	FRAME TYPE	REMARKS
CD	TUTTLE & BAILEY S SERIES	CEILING DIFFUSER - MODULAR FOR HARD CEILING	FRAME SF	1 2
CD	TUTTLE & BAILEY S SERIES	CEILING DIFFUSER - MODULAR FOR T-BAR CEILING, 24"X24" FACE	FRAME LT	1 2
RG	TITUS 50F	RETURN GRILLE, 1/2" EGGCRATE FRAME FOR CEILING SHOWN	TYPE 1 OR 3	1

1. FACTORY WHITE FINISH.
2. ALL DIFFUSERS SHALL BE 4-WAY UNLESS OTHERWISE NOTED ON THE PLANS.
3. SEE ARCHITECTURAL DRAWINGS FOR CEILING TYPES. DIFFUSERS TO MATCH CEILING.

FURNACE-CONDENSING UNIT SCHEDULE

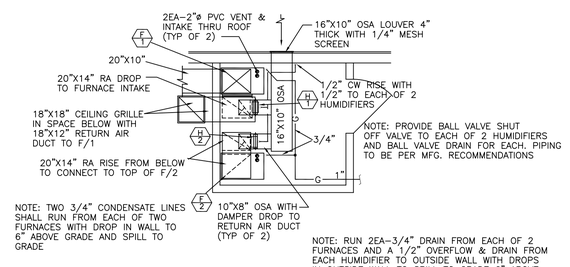
FURN. SYM	MANUFACTURER MODEL	COND. SYM	MANUFACTURER MODEL	AREA SERVED	CFM	SP (1)	COOLING (2) ARI NET CLG CAP.	SEER	HEATING INPUT (MBH)	COND. UNIT ELECT. VOLT	Ph	Hz	FURNACE ELECTRICAL VOLT	Ph	Hz	BHP	NOMINAL TONS	REMARKS
F-1	TRANE UPFLOW TUX080C942D	C-1	TRANE TTA036D300A	SIMULATOR	1200	0.6"	36,000	13.0	80	208	3	60	120	1	60	3/4	3.0	5 6 7 8 9
F-2	TRANE DNFLOW TDX080C942D	C-2	TRANE TTA036D300A	SIMULATOR	1200	0.6"	36,000	13.0	80	208	3	60	120	1	60	3/4	3.0	5 6 7 8 9

GENERAL NOTES (APPLIES TO ALL UNITS)
1. EXTERNAL STATIC PRESSURE WITH FILTER IN PLACE.
2. COOLING CAPACITY BASED ON; 80'DB/62'WB ENT. AIR & 95' AMBIENT.
3. CONTINUOUS B.H.P. PER MANUFACTURERS SPECIFICATIONS.

NUMBERED NOTES (APPLIES TO UNITS LISTED)
5. PROVIDE MANUAL BALANCING DAMPER IN RETURN AIR BRANCH DUCT AT FURNACE
6. PROVIDE FILTER RACK & 2" THROWAWAY FILTERS.
7. PROVIDE PROGRAMMABLE, HEATING/COOLING AUTO CHANGE-OVER, DIGITAL NIGHT SET-BACK THERMOSTAT; HONEYWELL T-8621 W/ SUBBASE W/GYMNASIUM THERMOSTAT COVER PROVIDED WITH UNIT. FURNISH AND INSTALL ALL CONTROL WIRING IN CONDUIT BETWEEN THERMOSTAT AND HVAC UNIT. ALL WIRING AND WIRING TO BE CONCEALED.
8. PROVIDE VENTGLASS FLEXIBLE CONNECTIONS AT DUCT CONNECTIONS TO FURNACE
9. PROVIDE GAS COCK & GAS PRESSURE REGULATOR

MECHANICAL NOTES

1. ALL DIFFUSERS ARE FOR 4-WAY BLOW UNLESS NOTED OTHERWISE
2. ALL BRANCH SUPPLY AIR DUCTS SHALL HAVE A BALANCING DAMPER IN DUCT WITH EXTENSION SHAFT TO CEILING WHERE A CHROME PLATED YOUNG REGULATOR WITH COVER SHALL BE INSTALLED. PROVIDE NECESSARY EXTENSIONS, MITER GEARS ETC. TO OPERATE DAMPER FROM CEILING.
3. ALL SUPPLY AIR DUCTS AND OUTSIDE AIR DUCTS SHALL BE WRAPPED WITH 1 1/2" FIBERGLASS INSULATION WITH VAPOR BARRIER LAPPED AND SEALED.
4. WIRING FOR THERMOSTATS, HUMIDISTATS AND INTERCONNECTING EQUIP. WIRING FOR CONTROLS SHALL BE BY HVAC CONTRACTOR
5. COORDINATE ALL DUCTWORK WITH STRUCTURE, ELECTRICAL, ETC. RUN DUCTS BETWEEN TRUSSES, THRU WEBS, ETC.
6. ALL REFRIGERANT LINES SHALL BE DEOXIDIZED AND DEGREASED TYPE "L" COPPER. INSULATE ALL REFRIGERANT SUCTION LINES WITH 1/2" ARMSTRONG ARMAFLEX WITH 2 COATS OF ARMAFLEX 22 FINISH
7. BALANCE AND ADJUST THE COMPLETE MECHANICAL SYSTEM. PROVIDE A BALANCING REPORT OF THE RESULTS OF BALANCING.
8. WALL LOUVERS SHALL BE STORMPROOF ALUMINUM, 4" THICK FLANGED FRAME WITH 1/4" MESH INSECT SCREEN AND SHALL BE AFFCO OR EQUAL
9. ALL WORK & MATERIAL OF HVAC SYSTEM SHALL BE IN COMPLIANCE WITH THE INTERNATIONAL MECHANICAL CODE, LATEST EDITION AND ALL LOCAL CODES AND ORDINANCES
10. ALL SUPPLY, RETURN, EXHAUST AND OUTSIDE AIR DUCTWORK SHALL BE GALVANIZED STEEL WITH GAUGES AND CONSTRUCTION AS REQUIRED BY SMACNA "LOW VELOCITY DUCT MANUAL" LATEST EDITION.



ENLARGED MECH. PLAN

SCALE: 1/4"=1'-0"

NORTH

VINCENT DESIGN GROUP, INC.
ARCHITECTS AND PLANNERS
401 EAST 1700 SOUTH, SALT LAKE CITY, UTAH (801) 484-2046

ADDITION TO
UTAH VALLEY STATE COLLEGE AIRPORT HANGER ADDITION

PROVO AIRPORT HANGER 'A'
PROVO, UTAH
DFCM PROJECT NO. 06008790

1ST & 2ND FLOOR MECHANICAL PLANS & DETAILS

ARCH. PROJECT NO:06-19
DATE:21 MAR 2006
DRAWN BY:G SMITH
CHECKED BY:
DESIGNED BY:

DATE	REVISION

SHEET TITLE

M-101

MECHANICAL 1 OF1